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	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/664,899	09/22/2003	Hiroshi Nakano	117221	6804
	25944 7	590 01/26/2006		EXAM	INER
	OLIFF & BE P.O. BOX 199	RRIDGE, PLC	JOERGER, KA	KAITLIN S	
		A, VA 22320		ART UNIT	PAPER NUMBER
				3653	_

DATE MAILED: 01/26/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

· -		Application No.	Applicant(s)				
	Office Action Commence	10/664,899	NAKANO, HIROSHI				
	Office Action Summary	Examiner	Art Unit				
		Kaitlin S. Joerger	3653				
Period fo	The MAILING DATE of this communication ap r Reply	opears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)[🔀	Responsive to communication(s) filed on <u>27 June 2005</u> .						
•		is action is non-final.					
·—	Since this application is in condition for allow		secution as to the merits is				
/—	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
4)⊠	4) Claim(s) 1-9 is/are pending in the application.						
,	4a) Of the above claim(s) is/are withdrawn from consideration.						
	5) Claim(s) is/are allowed.						
6)⊠	6)⊠ Claim(s) <u>1,2 and 5-9</u> is/are rejected.						
7)	7) Claim(s) 3 and 4 is/are objected to.						
8)□	8) Claim(s) are subject to restriction and/or election requirement.						
Applicati	on Papers						
9) The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on is/are: a)□ accepted or b)□ objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority ι	ınder 35 U.S.C. § 119		·				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 9/22/03. 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. 9/20/03. 5) Notice of Informal Patent Application (PTO-152) Other:							

DETAILED ACTION

Election/Restrictions

Applicant's election with traverse of Group 1, claims 1-4 and 7-9 in the reply filed on 27 June 2005 is acknowledged. The traversal is on the ground(s) that the subject matter of all of the claims, 1-9, is sufficiently related that a thorough search of the subject matter of any one group of claims would encompass a search for the subject matter of the remaining claims. This argument has been found persuasive, and as such the examiner has searched and examiner all of the pending claims, claims 1-9.

The restriction requirement is therefore withdrawn.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim1,5-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tsurumi et al.

Tsurumi et al. teaches a rotary clutch device, comprising: a tooth-partially-lacking gear, 6, that can mesh with a drive gear, 4, and is given initial rotation force; a rotatable cam body, 14, that is concentric with the tooth-partially-lacking gear; and an elastic body, 10.

He further teaches an engagement lever, 7a, that is engaged with and disengaged from an

engagement step, 13, according to an operation of an actuator, 7, so that the tooth-partially-lacking gear starts to rotate; and rotation force of the tooth-partially-lacking gear is transmitted to the cam body via the elastic body.

Tsurumi et al., however, teaches that the engagement step, 13, is located on the tooth-partially-lacking gear. The function of the engagement step of Tsurumi et al. is to stop the rotation of the tooth-partially-lacking gear, which is the same function as claimed by the applicant. Therefore, it has been determined that the engagement step of Tsurumi et al. is functionally equivalent to the engagement step of the applicant's invention, and the location of the step on the cam body, as claimed by the applicant, does not patentably distinguish the applicant's invention over the prior art.

Tsurumi et al. further teaches a first support portion, 11, on the cam body; a second support portion, 9, on the tooth-partially-lacking gear; where the first and second support portion oppose each other; and both ends of the elastic body, 10, are supported by the first and second support portions.

He further teaches a sheet feeder, comprising: a sheet stacking unit, see figure 17; a sheet feed roller, 3; and a rotary clutch device as described above. He also teaches an image forming apparatus, comprising: a sheet stacking unit, see figure 17; a sheet feed roller, 3; an image forming unit, 23; and a rotary clutch device as described above.

Tsurumi et al., more broadly, teaches a rotary clutch device, comprising: a first rotating body, 6, with which a rotating force is supplied by a driving source, 4; a second rotation body, 14, disposed concentrically wit the first rotating body, the second rotating body with which the rotating force is supplied by the first rotating body; an engagement portion, 6a, being engageable

with the second rotating body to restrict rotation thereof; and an elastic body, 10, disposed between the first and second rotating bodies to transmit rotating force from the first to the second rotating body. The elastic portion being compressed when the engagement portion restricts the rotation.

The first rotating body, 6, of Tsurumi et al. being disposed about a rotating axis, having a first opposing surface perpendicular to the rotating axis; a second rotating body, 14, disposed concentrically with the first rotating body, the second rotating body having second opposing surface opposed to the first opposing surface and perpendicular to the axis; a restriction portion, 6a, capable of restricting rotation of the second body; an elastic portion or impact absorber, 10; the first surface includes a first support, 9; the second surface includes a second support, 11; and the elastic portion, 10, is arranged between the first and second supports.

Allowable Subject Matter

Claims 3 and 4 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: Us Patent 6,070,867 to Tsurumi et al. is considered by the examiner to be the closest prior art. Tsurumi et al. teaches all of the features of claim 3, and the claim from which is depends, claim 1, including a first contact portion, 14a, on the came body; a second contact portion, 6a, on the tooth-partially-lacking gear; where in the first and second contact portions are opposed to each

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other in a rotation direction. However, Tsurumi et al. fails to teach a flat elastic body that is

fixed to at least one of the first and second contact portions.

The examiner did not find any other teaching among the prior art that could be combined

with the Tsurumi et al. reference to teach such a feature. Therefore, claim 3 and claim 4, which

depends from claim 3, were found to contain allowable subject matter.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Kaitlin S. Joerger whose telephone number is 571-272-6938. The

examiner can normally be reached on Monday - Friday 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Eileen Lillis can be reached on 571-272-6928. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

10 January 2005

EILEEN D. LILLIS

TECHNOLOGY CENTER 3600